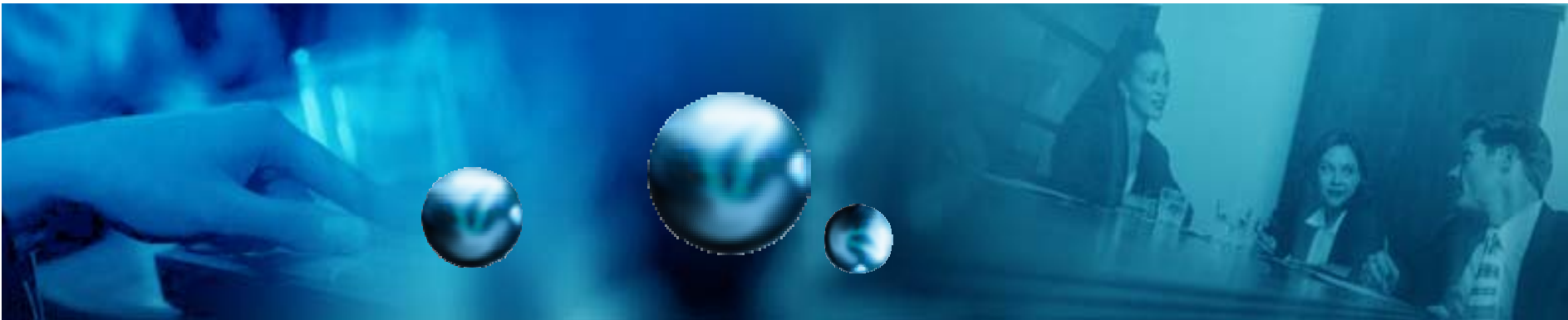
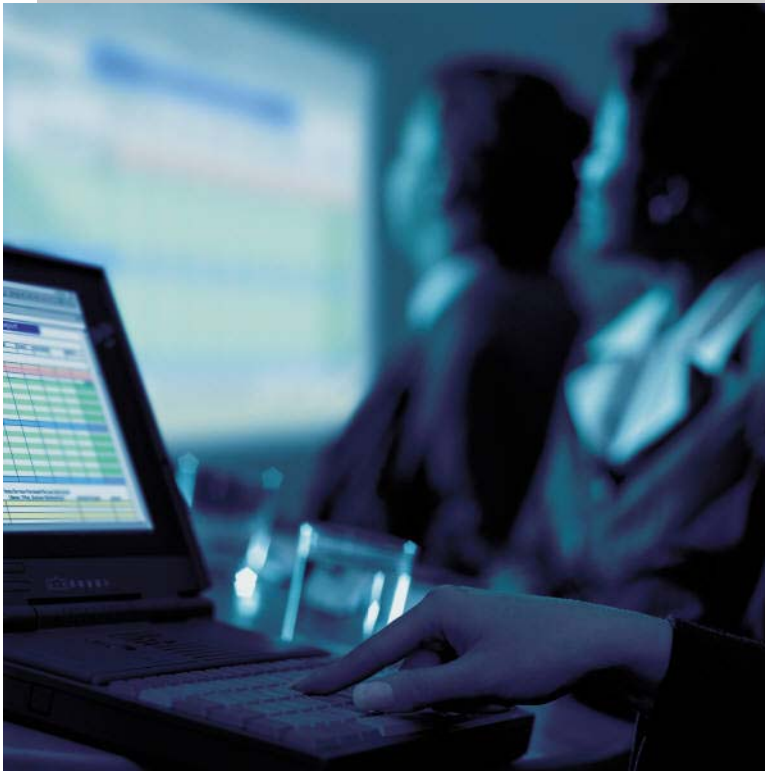


Lakshmi Precision Screws Ltd.



WELCOME



The purpose of
this
Presentation is
to give a *FEEL*
of LPS as
“Business Fit”



Presentation Objective

To confirm our understanding



LPS → Business Fit!



LPS → Solution Fit!

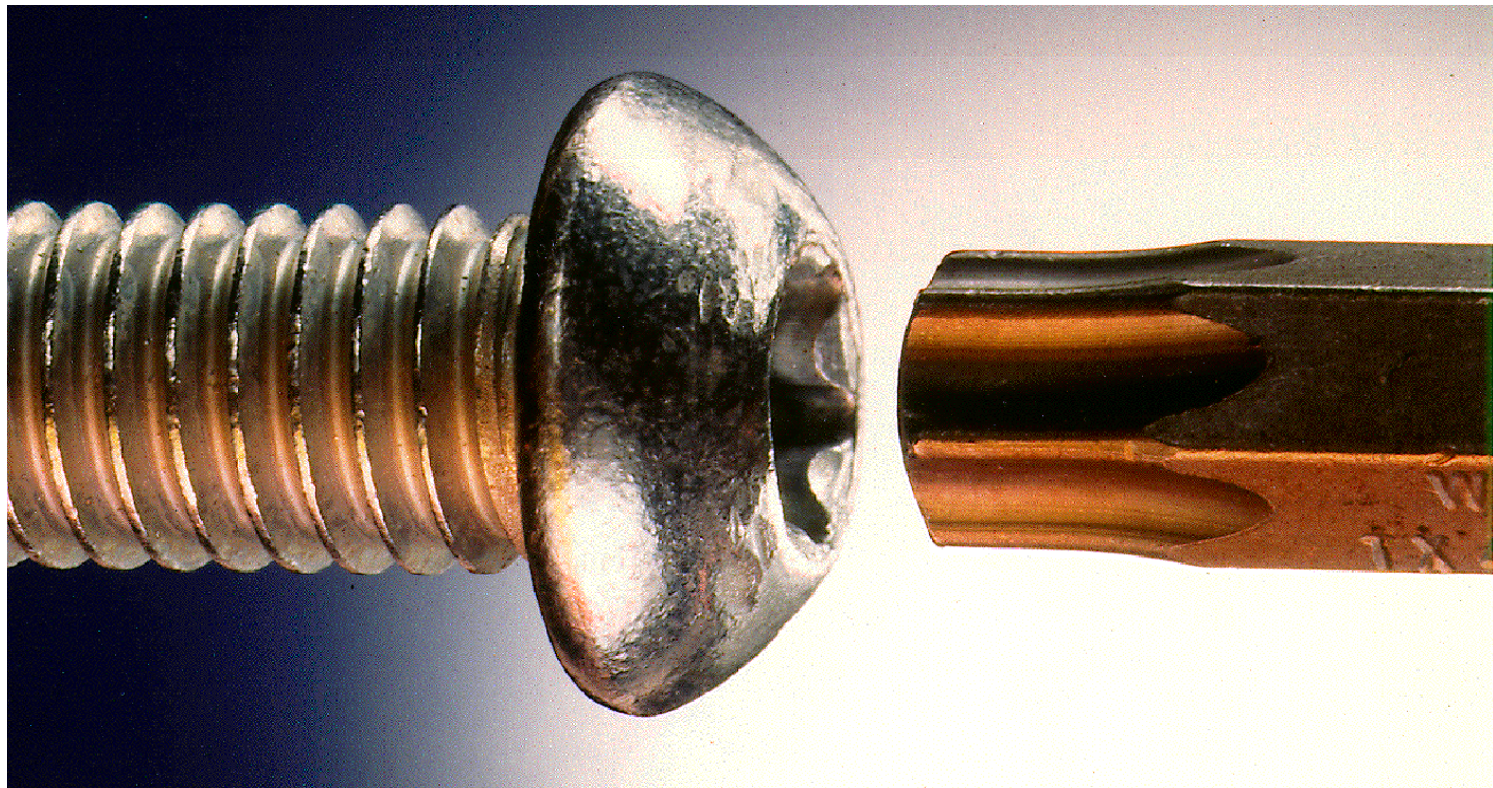


LPS – A Strategic supplier Partner



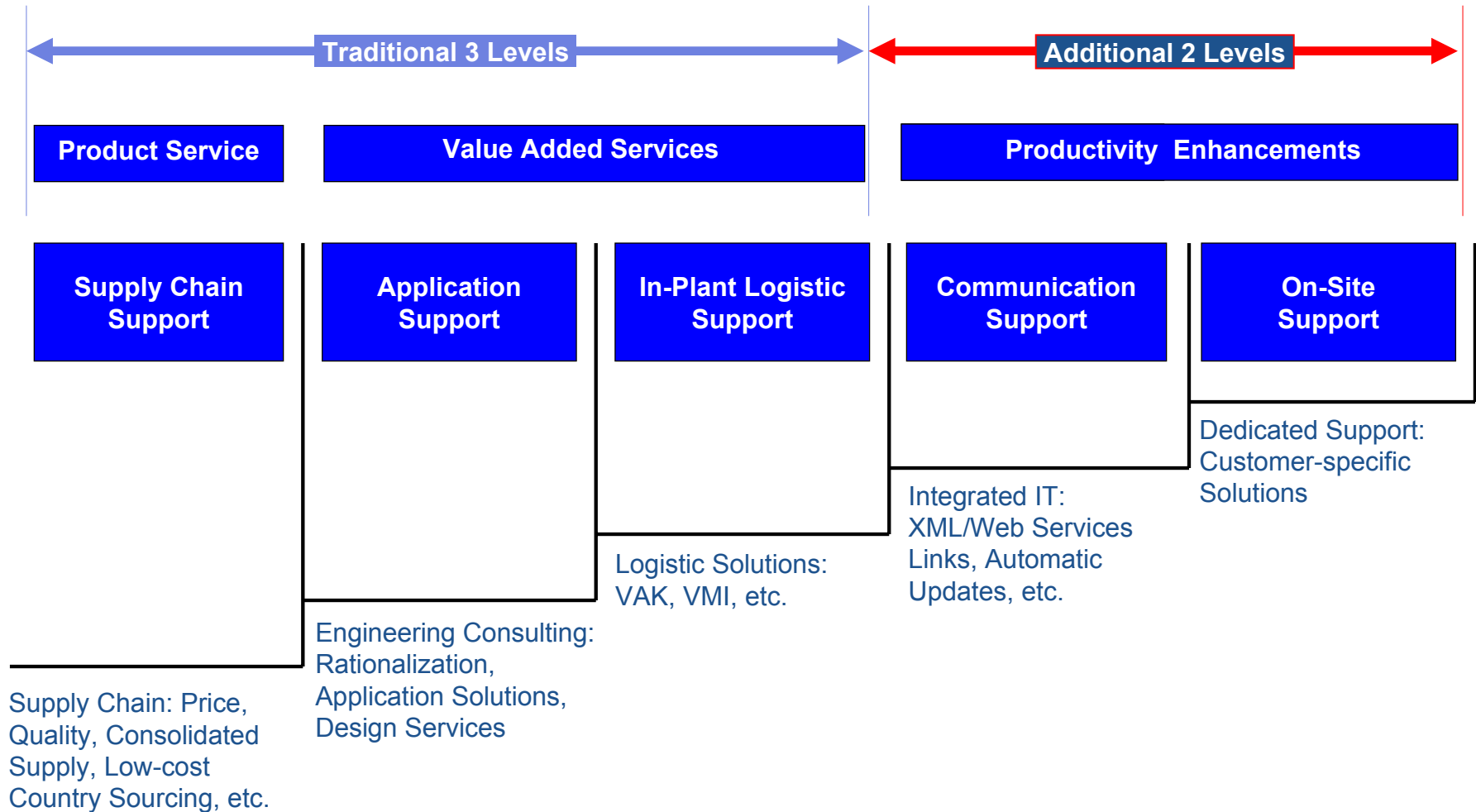
Action points to initiate our strategic partnership journey..

How can LPS add value as a strategic partner





3 Levels +: A Comprehensive Service Package





Customer focus: LPS Profile

Your profit – our goal:

We support Customer's economic and technical requirements by offering customer made solutions, helping them to a better and stronger competition position at higher safety – worldwide.



Economic Requirements

Increasing the
ROI (Return on Invest) =

- Cost reduction
- Higher productivity

= «Lean-Consumption»



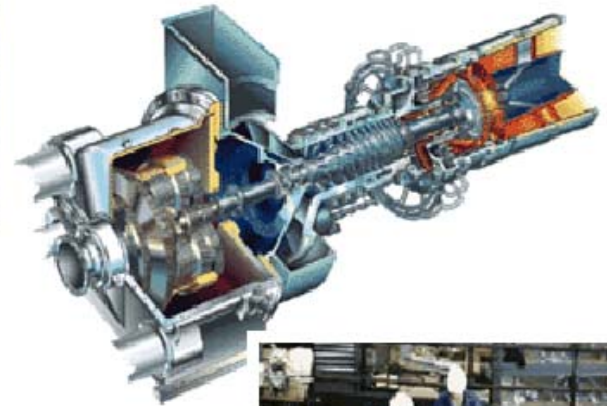
Your - Challenge

Product must be

- modern,
- reliable and
- available

and at the same time

- fast,
- flexible and
- cost-efficient
producible





The Logic Result

Product must be

- modern, → Intensify R&D
- reliable and → Cultivate quality
- available → Improve logistics

and at the same time

- fast, → Optimize own production and cooperation with suppliers
- flexible and
- cost-efficient producible



- **Intensify R&D:**
 - **Modern products for modern fastening technique**
 - **Simultaneous Engineering**
- **Cultivate quality:**
 - **Worldwide quality standards**
 - **Certified test laboratories**
- **Improve logistics:**
 - **Approved logistics systems**
 - **Automated supply chain**

«Lean-Consumption» is

- analysing the flow of processes
- eliminating the cost of the complexness
- reducing the rate of errors
- maximising the speed of the processes

At least 50%
of all processes are activities
with no added value

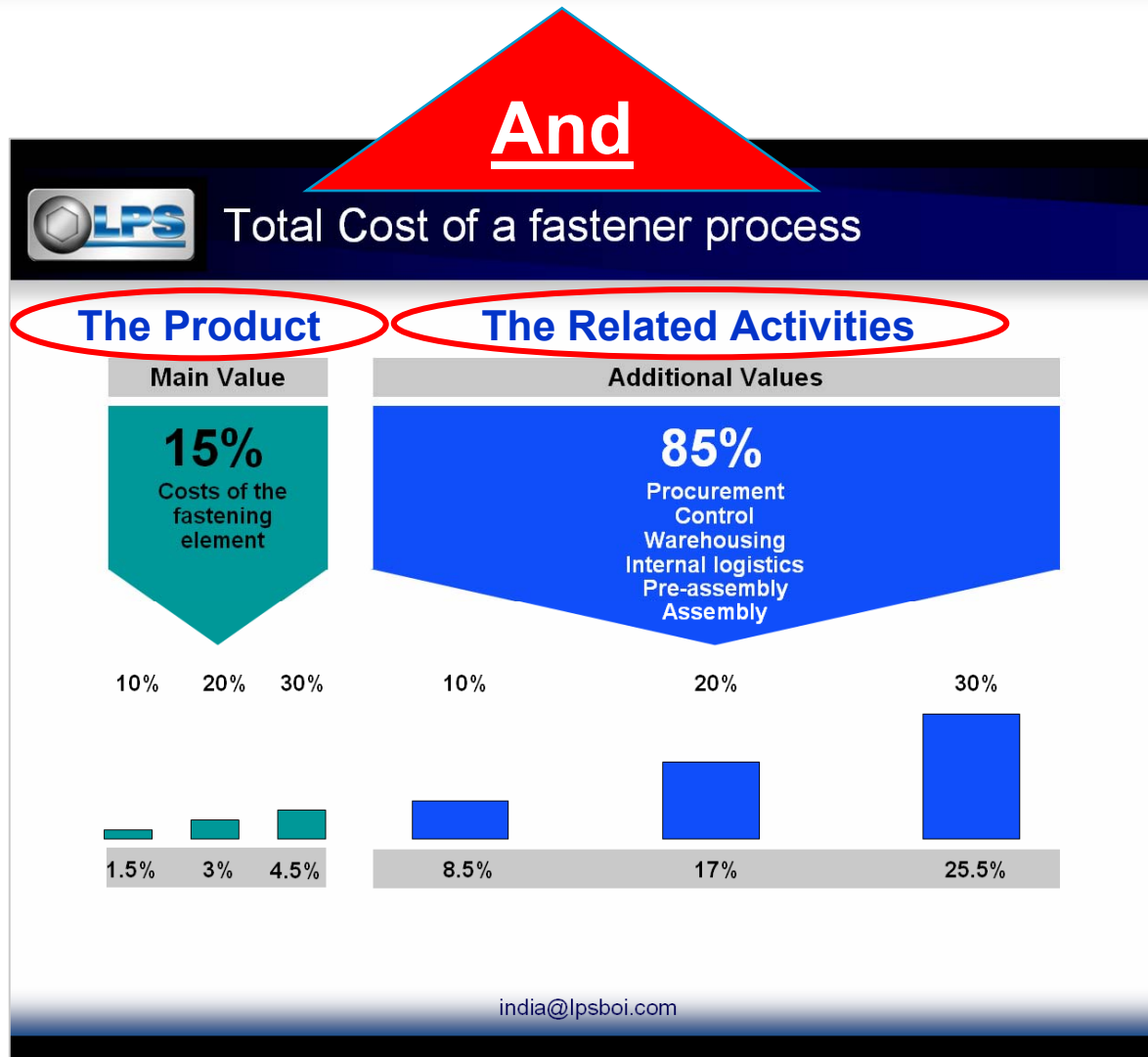


added value

no added value

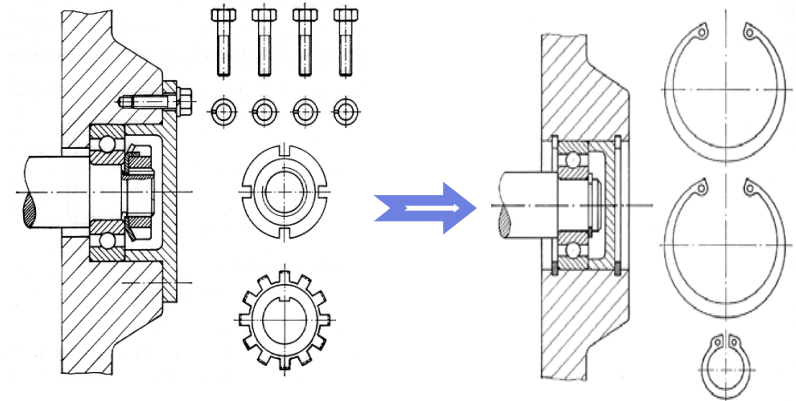
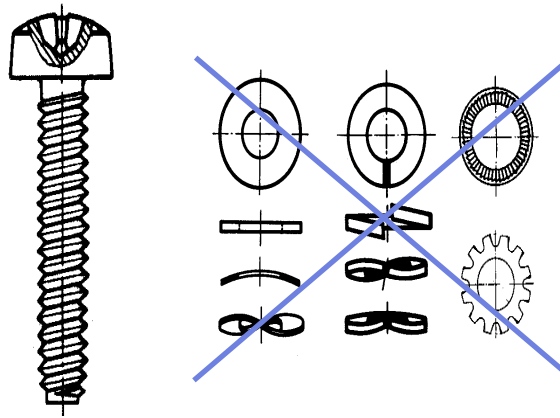


In-place Cost: We must add value to both sides



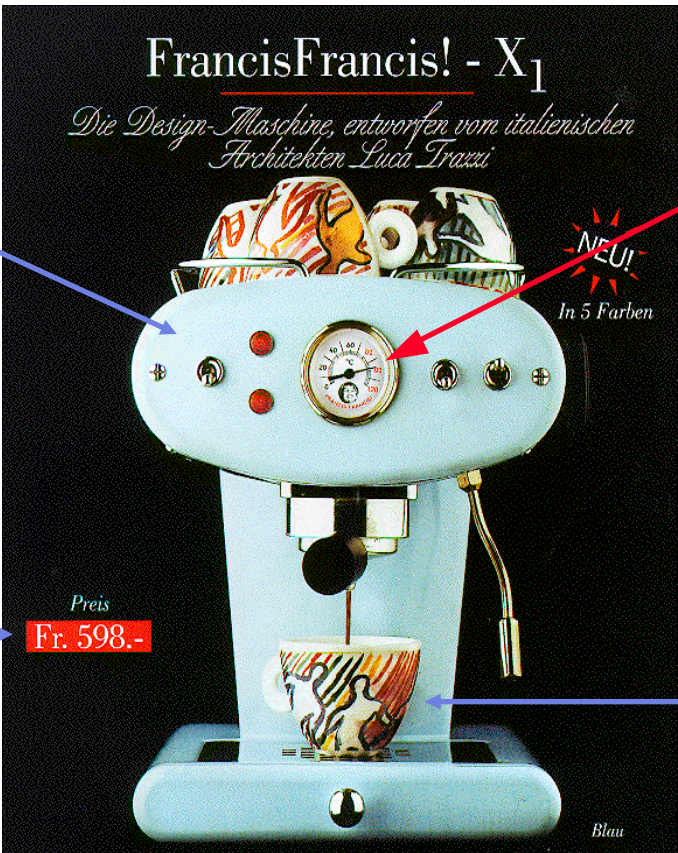


**Caps used for
corrosion protection**



LPS Engineering Support

Responsibility of the design engineer

An advertisement for the FrancisFrancis! - X1 coffee machine. The machine is a light blue, retro-style espresso machine with a pressure gauge on the front. It is shown dispensing coffee into a cup with a colorful, abstract design. The background is black with white text. The text includes the product name 'FrancisFrancis! - X1', a description 'Die Design-Maschine, entworfen vom italienischen Architekten Luca Trazzi', a price tag 'Preis Fr. 598.-', and a 'NEU!' (New!) starburst. Arrows from external labels point to various parts of the machine: 'design' points to the top body, 'safety' points to the pressure gauge, 'production costs, (price)' points to the price tag, and 'functionality' points to the coffee spout and cup.

design

safety

production costs, (price)

functionality

FrancisFrancis! - X₁
Die Design-Maschine, entworfen vom italienischen Architekten Luca Trazzi

NEU!
In 5 Farben

Preis
Fr. 598.-

Blau



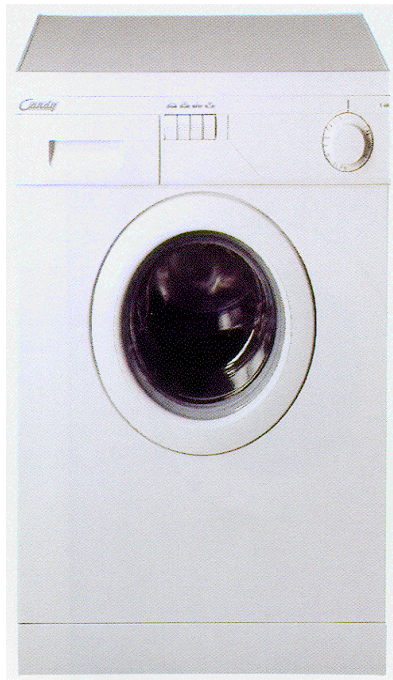
Basic recommendations

for cost savings in assembly technology:

- minimize parts or components to be assembled
- ease of transfer of parts to be assembled
- ease of aligning parts for assembly
- efficient parts preparation for final assembly
- assembly friendly fasteners
- standard, readily available fasteners

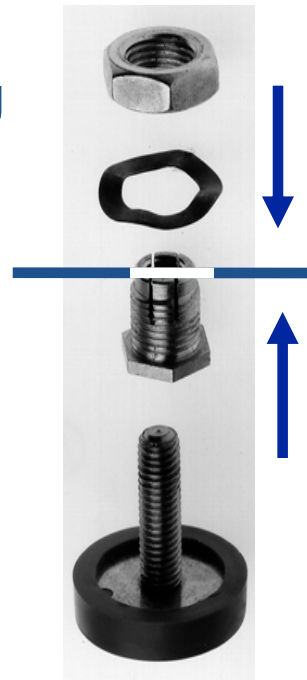


Levelling screw for a washing machine



4 fastening
elements

2 assembling
directions



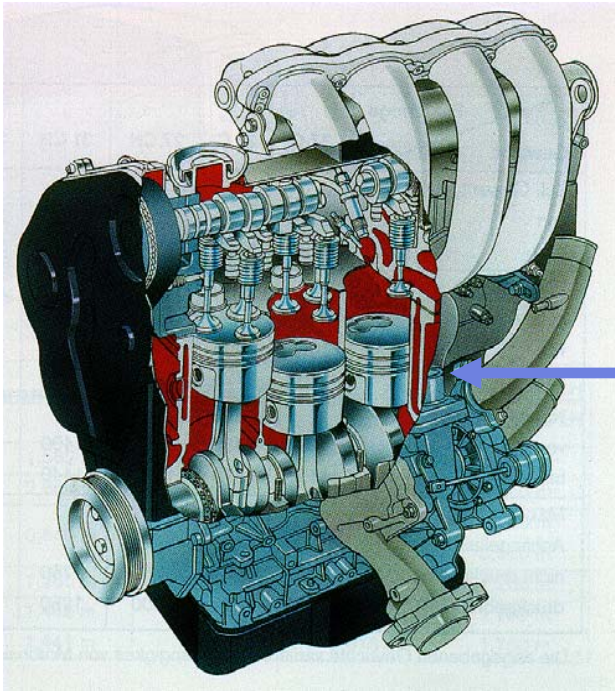
2 fastening
elements

1 assembling
direction

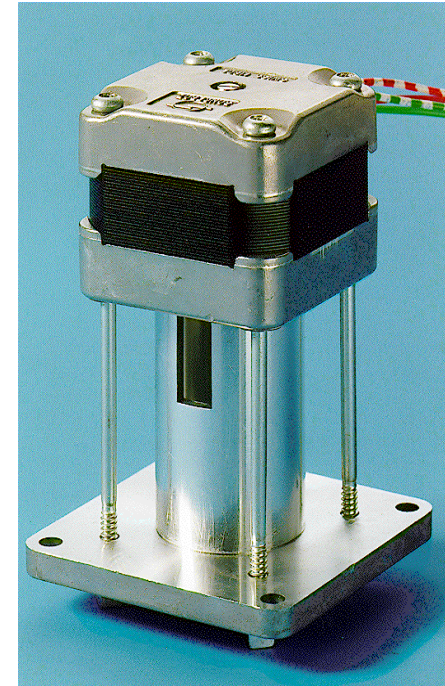




Assembly facilitators



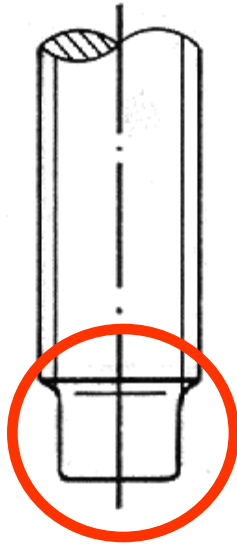
dog point



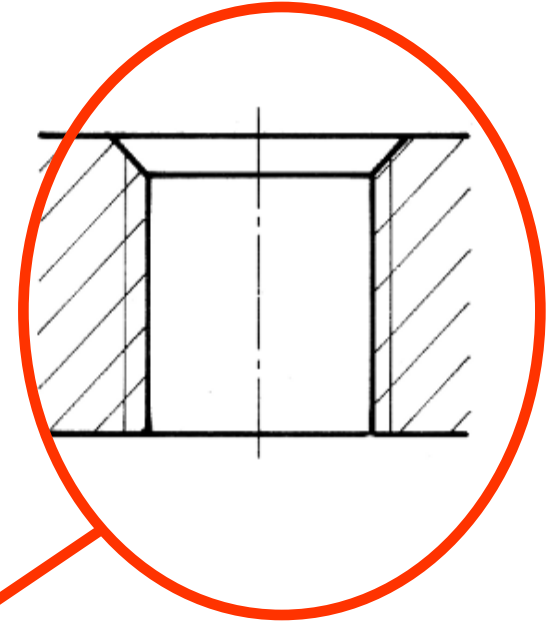
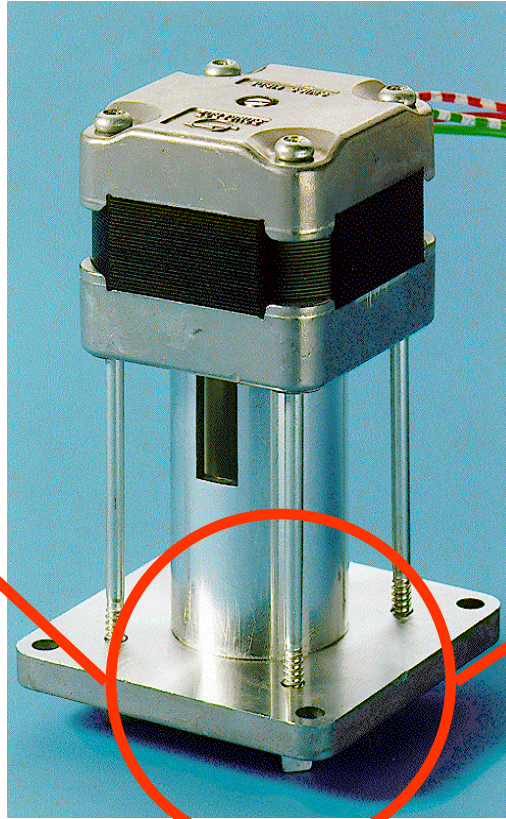
countersunk holes



Use of assembly facilitators



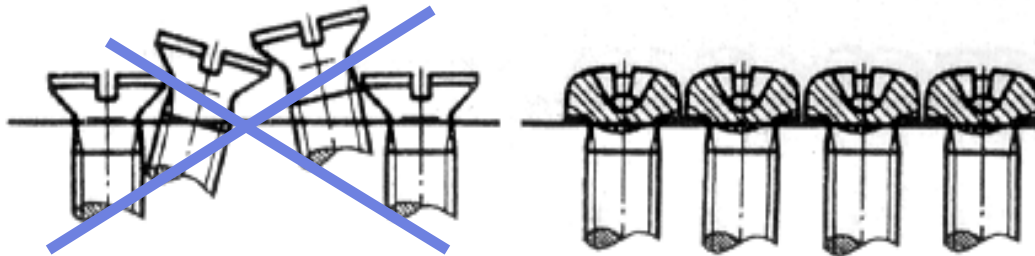
**With
dog point**



With chamfer



Use assembly friendly fasteners



Flat head & low head screws

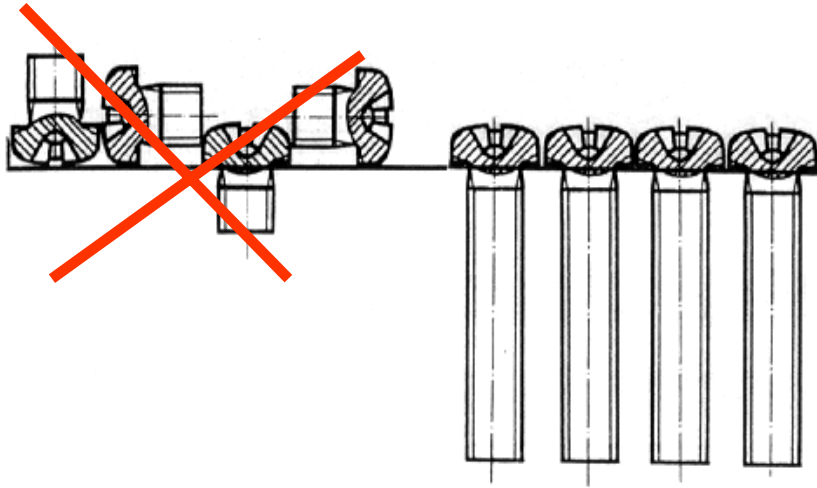
Tendency of:

- Shingling
- Inter-linking
- Tipping over

Causing more frequent
line
shut downs!



Use assembly friendly fasteners

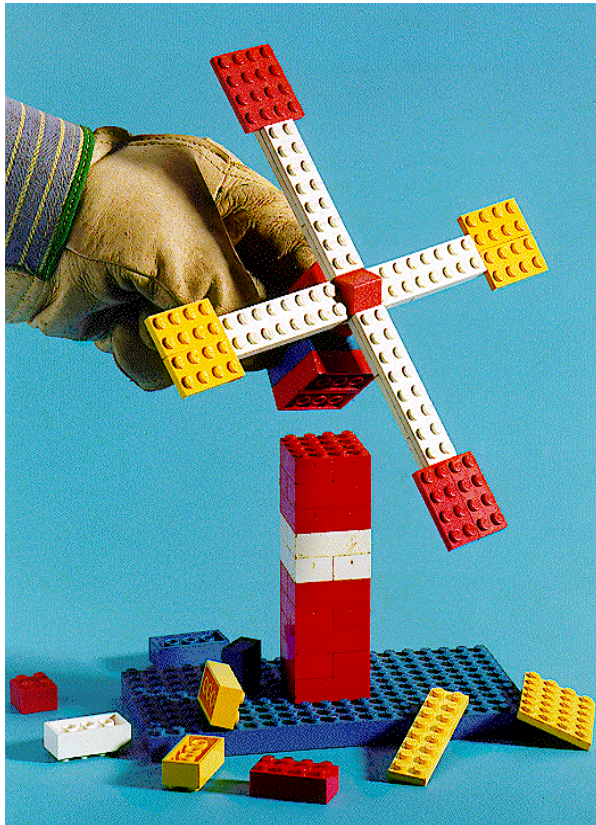


**Choose screws
with shank/head
1.5 (2) : 1**

**Short screws are top heavy,
likely to tip over in
automated assembly**



Vital criteria for a good design

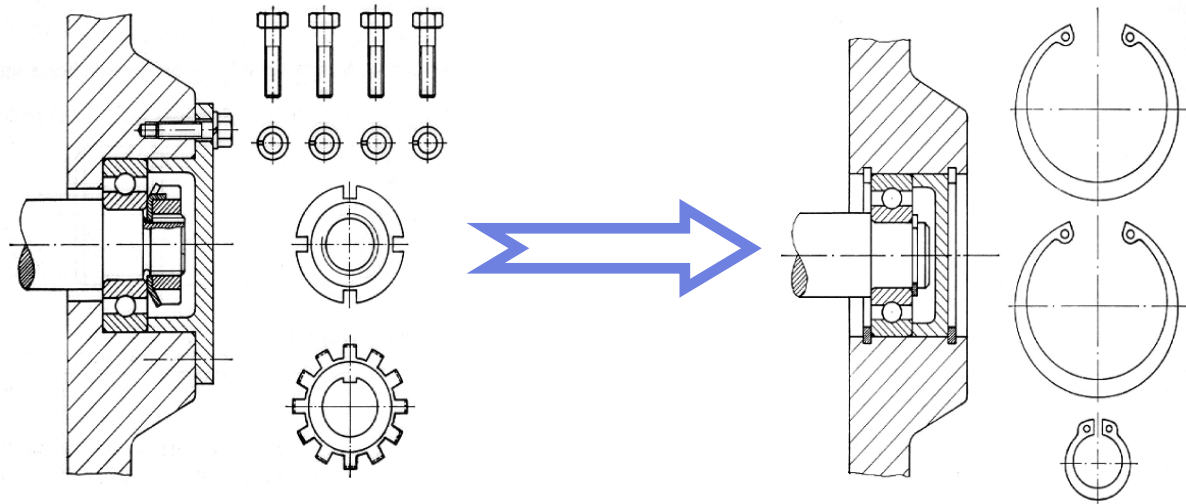


**If a right-handed person
can do the assembly
with the left hand
wearing a glove....**

....the robot can do it too!



Reduce number of parts

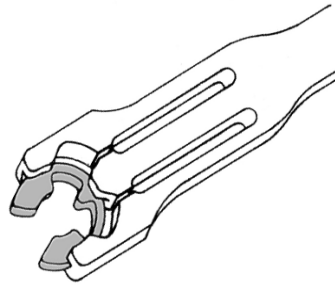
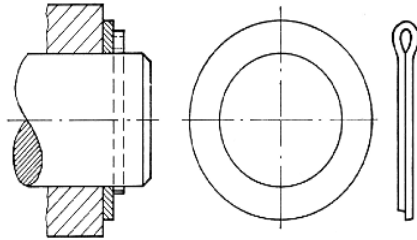


- 4 Screws
- 4 Lock washers
- 1 Shaft nut
- 1 Locking plate
- Plus complex cover

- 2 Internal retaining rings
- 1 External retaining ring
- Plus simplified cover

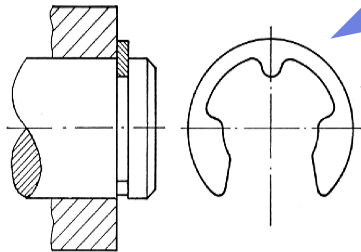


Circlip instead of cotter pin & washer



Replace cotter pin
& washer with

a circlip



Assembly is:

- faster
- easier
- more cost-efficient

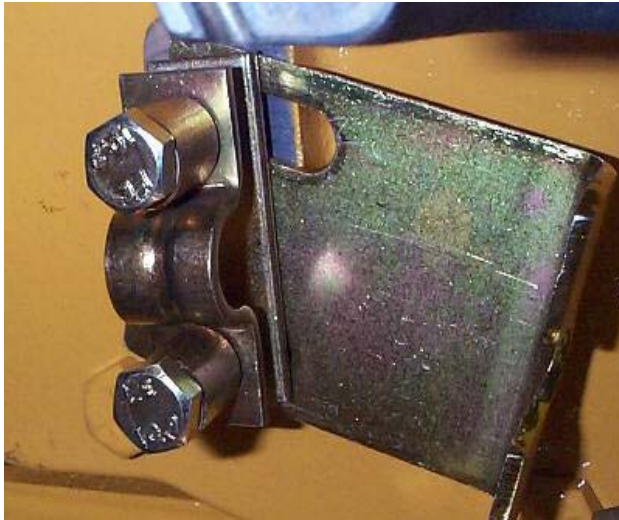
Uses

- 1 less part



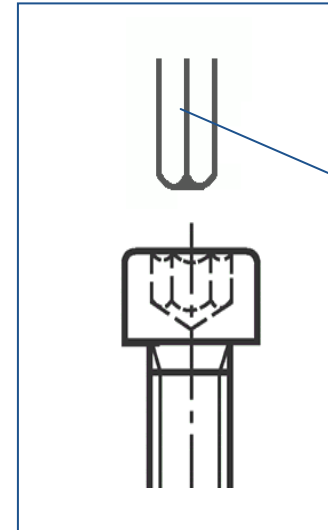
Choice of proper fastener

reduces parts and assembly time



Original design:

Hex cap screws with sleeves because of clearance problems



Tool applied
inside head

Suggestion:

Use socket head cap screws,
sleeves no longer needed



LPS Business Fit

- You do not waste your time, because we deliver ...
 - what you need
 - as you need it
 - where you need it
 - when you need it
 - from one source
 - at competitive prices



→ Your needs are our core competence

About LPS





Our Vision

- Be a Growth orientated professional organization promoting high standards of business ethics
- Establish strong R&D Facility and innovate continuously
- Make each member of the organization feel proud and empowered
- Strive to achieve 6 σ (Six Sigma) Quality levels
- Maximize shareholder's wealth



Our Mission

- Continue to retain market leadership in Indian marketplace and establish LPS as a Global brand by creating value for customer through Technology, Quality, Cost Competitiveness and Innovation.
- And, be recognized by our customers as their best and preferred supplier of fasteners and components, exceeding customer expectations and striving for excellence



Our Business Values...

- We believe that our 1st responsibility is to our customers,
- Our 2nd responsibility is to those who work with us
- Our 3rd responsibility is to our Management.
- Our 4th responsibility is to the community in which we live..
- Our 5th and last responsibility is to our stockholders.

WE ARE DETERMINED WITH THE HELP OF GOD'S GRACE, TO FULFILL THESE OBLIGATIONS TO THE BEST OF OUR ABILITY.



History & Milestones...

1972 - Established as LPS in technical tie-up from Germany

1984 - Registered as Public Limited Company

1988 - Established as Exporter

1991 to 93 - Continuously received Regional Export Award from EEPC

1993 - Established LPS Plant-II

1995 - A2LA and NABL Accreditations

1996 - ISO 9002 Certification



History & Milestones ...

1996 - Technical tie-up with SUNIL Machinery Corp., S.KOREA for Quality, Productivity & Development of Automotive Parts

1998 - Marketing tie-up with RECOIL Pty. Australia

1998 - Joint venture with BOSSARD-AG, Switzerland

1999 - License to manufacture & market TORX® brand of proprietary products from Acument, USA

2000 - QS-9000:1998 Certification

2001 - ISO/TS 16949:1999 Certification



History & Milestones ...

2001 - ISO 14001 Certification

2002 - SAP R/3 implemented

2002 - Golden Peacock Environment Management Award

2003 - VOLVO Global Supplier Certification

2003- ISO/TS16949 (Version 2002) Certification

2004 - Recommended for OHSAS 18001 Certification

2005 - License to manufacture fasteners with Doerken® Proprietary Delta-Seal® & Delta-Tone® Finishing Technology



History & Milestones ...

2005 - License to manufacture & market EJOT® brand of proprietary products Delta-PT® & Altracs® from EJOT GMBH, Germany

2005 - Marketing tie up with Wiha Werkzeuge GmbH, Germany for their Quality Tools

2005 - OHSAS 18001 Certification

2006 – Achieved Export Excellence Award from EEPC India

2006 – Silver Award for Manufacturing Excellence in Engineering – Emerging Category during ‘ Indian Manufacturing Excellence Awards 2006 conducted by Frost & Sullivan



Our Global Alliances...

BOSSARD





Manufacturing Infrastructure

 TOTAL ASSETS	: \$ 30 Million
 LAND AREA	: 77,000 m²
 BUILD UP AREA	: 41,000 m²
 INSTALLED CAPACITY	: 20,000 MT
 ACTUAL PRODUCTION	: 18,000 MT
 EXPECTED GROWTH	: 20% Per Year



Manufacturing Capabilities

**Diameter Range:**

M3 to M30 by Cold Forging. Above M30 by Hot Forging.

**Length:**

6mm to 300mm by Cold Forging. Above 300 mm by Hot Forging.

**Thread Rolling:**

6mm to 120mm by in-feed and up to 1000 mm by out-feed.

**Grade:**

JIS, ANSI, BIS, IS, DIN, ISO.

**Variety of Finishes:**

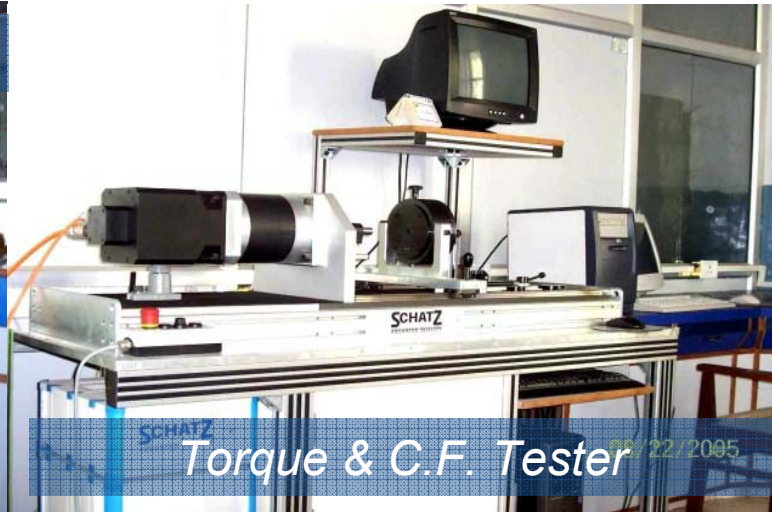
Dacro Coating, Hot Dip Galvanizing, Delta-Seal, Delta-Tone, Zn Iron Plating, Zn Plating with Chrome Passivation (Black, Green, White, Bleach Yellow & Yellow), Thermal & Chemical Blackening, Electro-less Nickel Coating



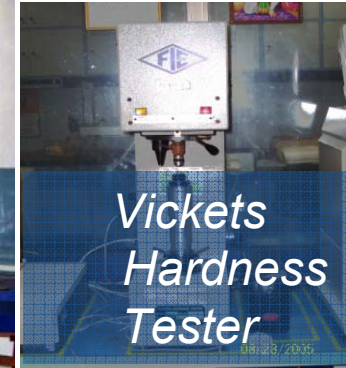
Chemical & Metallurgical Test Facilities



UTM:100T



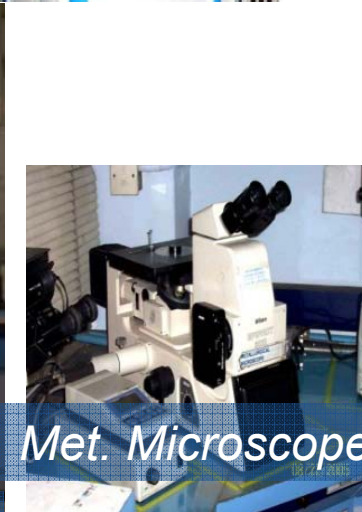
Torque & C.F. Tester



Vickers Hardness Tester



Corrosion Testing



Met. Microscope



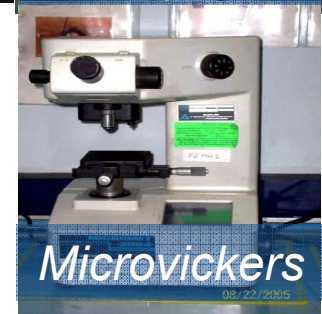
MCD Machine



Rockwell cum Brinell



Fischeroscope



Microvickers

METROLOGY- STANDARDS ROOM





Well equipped Quality Lab for R&D ,Design





Certifications

UNDERWRITERS LABORATORIES INC. CERTIFICATE OF REGISTRATION

ISO 9001

LAKSHMI PRECISION SCREWS LTD., PLANT II

Hissar Road
Rohtak - 124 001
Haryana INDIA

Underwriters Laboratories Inc. (UL), Melville, NY, USA, issues this certificate to the firm named above, after assessing the firm's quality system and finding it in compliance with

ISO 9001:2000

EN ISO 9001:2000; BS EN ISO 9001:2000; ANSI/ASQ Q9001:2000
and the Quality System Requirements.

3452 (US) : Bolts, Nuts, Screws, Rivets and Washers

The manufacture of high tensile precision fasteners and cold forged products for industrial, power transmission and locomotive applications.

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2000 requirements may be obtained by consulting the organization. This quality system registration is included in UL's Directory of Registered Firms and applies to the provision of goods and/or services as specified in the scope of registration from the addressee shown above. By issuance of this certificate the firm represents that it will maintain its registration in accordance with the applicable requirements. This certificate is not transferable and remains the property of Underwriters Laboratories Inc. (UL).

File Number: A9022 Volume: 2 of 2
Original Issue Date: November 2, 2001
ISO 9001:2000 Issue Date: November 6, 2003
Revision Date: September 6, 2006
Recertification Date: September 6, 2009
Renewal Date: September 6, 2009

John H. Schmidt
John H. Schmidt
Vice President and Chief Development Officer



UNDERWRITERS LABORATORIES INC. CERTIFICATE OF REGISTRATION

LAKSHMI PRECISION SCREWS LTD., PLANT II

Hissar Road
Rohtak - 124 001
Haryana INDIA

Underwriters Laboratories Inc. (UL), Melville, NY, USA, issues this certificate to the firm named above (and where applicable in the annexes to this certificate), after assessing the firm's quality system and finding it in compliance with

ISO/TS 16949:2002

for the following scope of registration

3452 (US) : Bolts, Nuts, Screws, Rivets and Washers

The manufacture of high tensile precision fasteners and cold forged products for automotive applications.

Exclusions: 7.3 Product Design and Development

This quality system registration is included in UL's Directory of Registered Firms and applies to the provision of goods and/or services as specified in the scope of registration from the addressee shown above. By issuance of this certificate the firm represents that it will maintain its registration in accordance with the applicable requirements. This certificate is not transferable and remains the property of Underwriters Laboratories Inc. (UL).

File Number: A9022 Volume: 1 of 2
Original Issue Date: November 2, 2001
ISO/TS 16949:2002 Issue Date: November 9, 2003
Revision Date: September 6, 2006
Recertification Date: September 6, 2009
Renewal Date: September 6, 2009

John H. Schmidt
John H. Schmidt
Vice President and Chief Development Officer



Certificate Number 0021794



UNDERWRITERS LABORATORIES INC. CERTIFICATE OF REGISTRATION

Lakshmi Precision Screws Ltd. Plant II

Opposite Northern Bye Pass
Hissar Road
Rohtak - 124 001
INDIA

Underwriters Laboratories Inc. (UL), Melville, NY, USA, issues this certificate to the firm named above, after assessing the firm's occupational health and safety management system and finding it in compliance with

OHSAS 18001:1999

OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM

as required by registered C-113 Occupational Health and Safety

34873(US) : Bolts, Nuts, Screws, Rivets and Washers

This Occupational Health and Safety Management System of Lakshmi Precision Screws, Plant II is associated with the Manufacture of High Tensile Precision Fasteners and Cold Forged Products for Automotive, Industrial, Power Transmission and Locomotive Applications located at Rohtak, Haryana, India to this registration of OHSAS 18001.

This occupational health and safety management system was developed by the addressee of the addressee shown above. By issuance of this certificate the firm represents that it will maintain its registration in accordance with the applicable requirements. This certificate is not transferable and remains the property of Underwriters Laboratories Inc. (UL).

File Number: A9163 Volume: 1
Original Issue Date: April 2, 2005
OHSAS 18001:1999 Issue Date: April 2, 2005
Recertification Date: January 17, 2010
Renewal Date: January 17, 2010

John H. Schmidt
John H. Schmidt
Vice President and Chief Development Officer



UNDERWRITERS LABORATORIES INC. CERTIFICATE OF REGISTRATION

ISO 14001

Lakshmi Precision Screws Ltd., Plant II

Opposite Northern Bypass
Hissar Road
Rohtak - 124 001, Haryana
INDIA

Underwriters Laboratories Inc. (UL), Melville, NY, USA, issues this certificate to the firm named above, after assessing the firm's environmental management system and finding it in compliance with

ISO 14001:2004

ENVIRONMENTAL MANAGEMENT SYSTEM

for developing scope of registration

This Environmental Management System of Lakshmi Precision Screws, Plant II is associated with the manufacture of High Tensile Precision Fasteners and Cold Forged Products for Automotive, Industrial, Power Transmission and Locomotive applications located at Rohtak, Haryana, India.

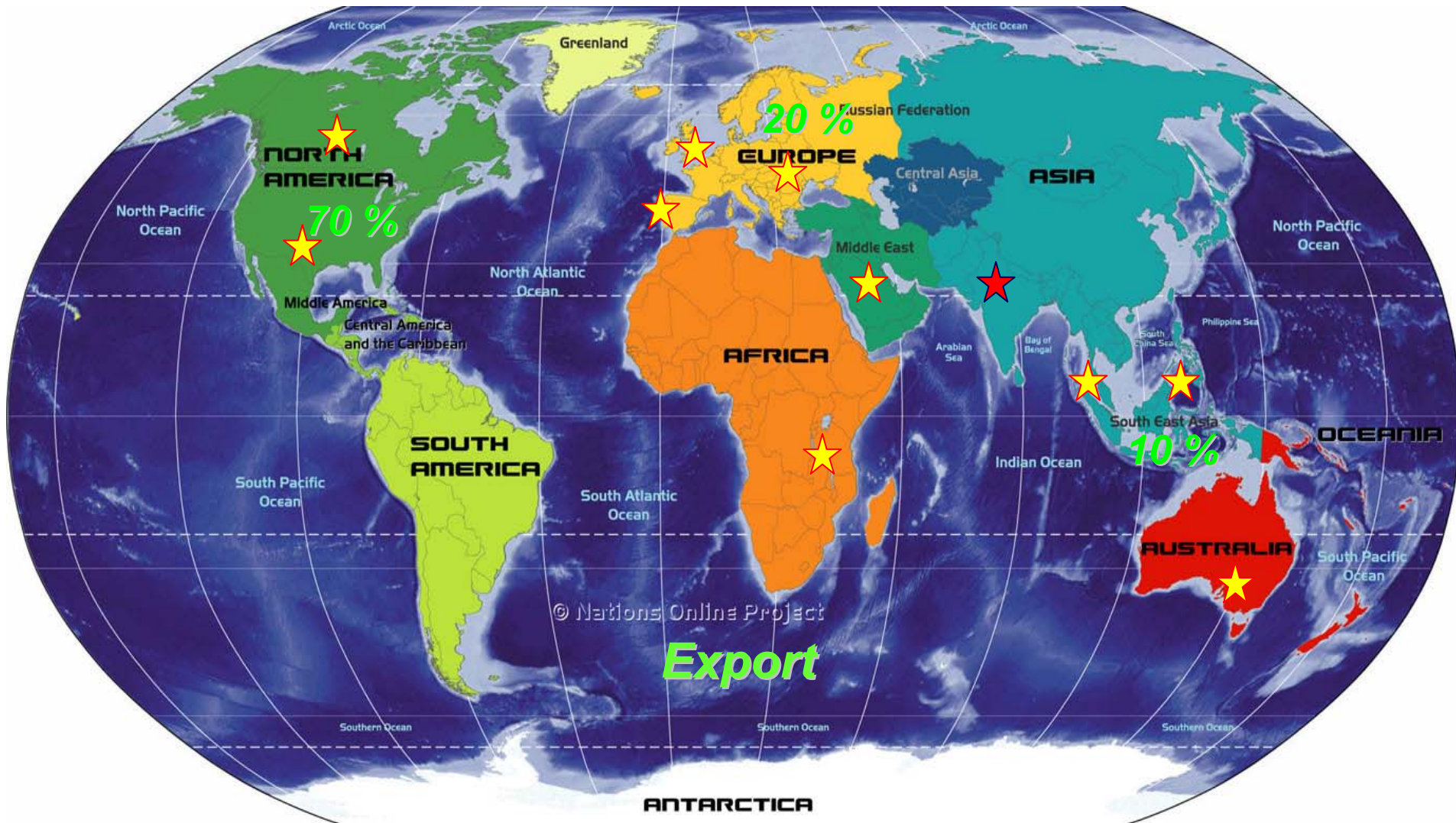
This environmental management system was developed by the addressee of the addressee shown above. By issuance of this certificate the firm represents that it will maintain its registration in accordance with the applicable requirements. This certificate is not transferable and remains the property of Underwriters Laboratories Inc. (UL).

File Number: A11103 Volume: 1
Original Issue Date: October 18, 2002
ISO 14001:2004 Issue Date: October 27, 2005
Renewal Date: January 7, 2010
Recertification Date: January 7, 2010

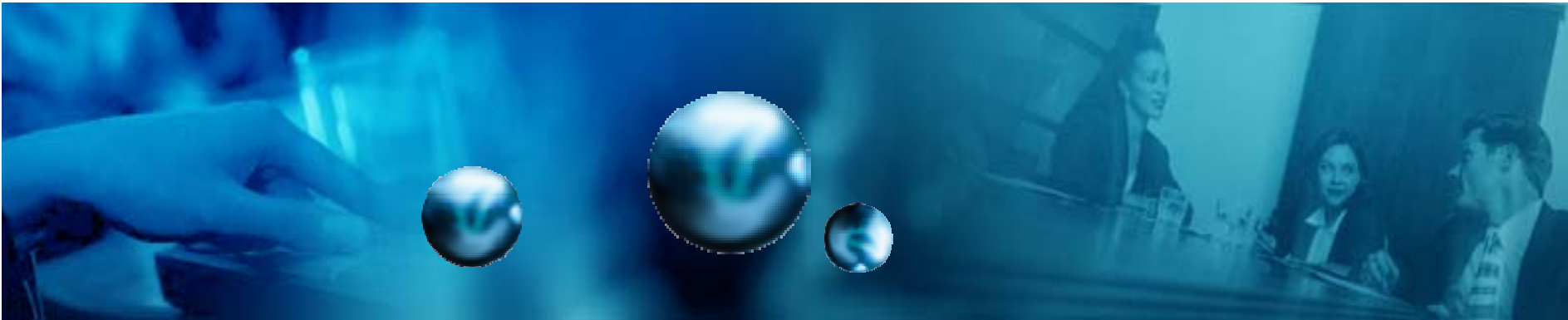
John H. Schmidt
John H. Schmidt
Vice President and Chief Development Officer



Global Spread



Product Range





Standard Product Range



Socket Head Cap Screws



Socket Counter Sunk Head Screws



Socket Set Screws



Flange Bolts/ Screws



Dowel pins



Stainless steel Fasteners



Socket Low Head Cap Screws



Socket Button Head Cap Screws



Hex Head Bolts/ Screws



Hex Nuts



Friction grip bolts



Special Product Range

- **TORX® and Clamp**
- **Compressor Bolt**
- **Wheel Bolts**
- **Collar Bolts and Axles**
- **Axles**
- **Studs**
- **Pivot Pin**
- **Transmission Bolt**
- **C.R. Bolt, Hub Bolt**
- **Durlock® Screw**
- **Wheel Bolt and Stud**
- **Hex Bolts**



Components Range

- **Piston Pins**
- **Shafts**
- **Ball Pins**
- **Ball Rods**
- **Plunger**
- **Sockets**
- **Spline Shafts**



Wide Varieties

Materials

- Alloy Steel
- Stainless Steel
- Special Steel
- A 286
- 15-5 PH
- 17-4 PH
- AISI 660
- Brass
- Aluminium

Grades

- Alloy Steel : 4.6 , 5.6 , 5.8 , 8.8 , 10.9 , 12.9 , 45H, 14.9 , 14K
- Stainless Steel : A1, A2 , A3 & A4 , 204 , 410 , 416, 431, 420
- Class : 2 , 5 , 5.2 , 8 & 10

Finishes

- Zinc Plating in White, Blue , Yellow, Green & Black .
- Dacromet Coating , Geomet Coating
- Zinc Iron & Zinc Manganese Plating
- Trivalent & Hex Chrome Free Plating





Fasteners for High Strength Application

Sets of

- hex structural bolts DIN 6914
class 10.9
- hex nuts DIN 6915
class 10
- washers with chamfers DIN 6916

structural bolts

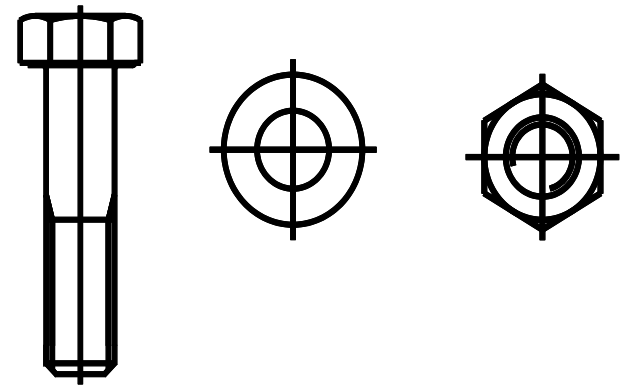
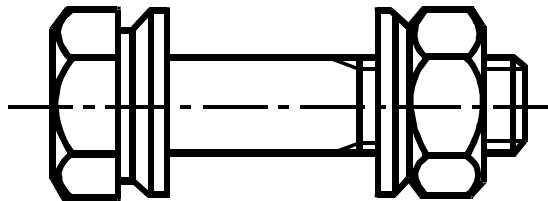
ISO 7411, 7412

hexagon structural nuts

ISO 4775, 7413, 7414, 7417

structural washers

ISO 7415, 7416



Fasteners for high strength structural bolting



Confidence to Customer

PPAP

**PSW
PROCESS FLOW DRAWINGS
FMEA
CONTROL PLAN
CHECKING AIDS
REACTION PLAN
CP, CPK RESULTS
MSA RESULTS
DIMENSIONAL &
TEST RESULTS**



Our Domestic Customers





Our Relationship with John Deere

- Supplying 115 parts to USA
- Supplying 226 Parts in India
- Supplying Parts for Vehicle Assembly, Transmission and Engine as well.
- **Range of items being supplied includes: Hex Bolts, Socket Screws, Nuts, Flange Screws, Flange Nuts, Shoulder Bolts, Studs, Wheel Bolts, Wheel Nuts, Torx Screws, Pins (Dowel, Clevis, Spring, etc.)**



Audits

MSQAA	(Missile Systems Quality Assurance Agency)
BDL	(Bharat Dynamics Limited)
DRDL	(Defence research and Development Lab.)
RCI	(Research Centre Imarat)
DRDO	(Defence Research and Development Organisation)
ISRO	(Indian Space and Research Organisation)
VSSC	(Vikram Sarabhai Space Centre)



Our Customers in Aerospace Industry



ASL



DRDL



RCI



AD



TBRL



BDL



ISRO



VSSC



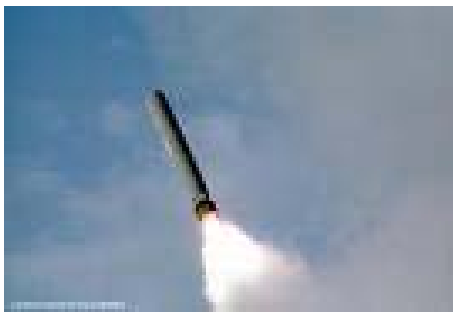
Ordnance Factories



Customer focus: LPS Profile

Your profit – our goal:

We support Customer's economic and technical requirements by offering customer made solutions, helping them to a better and stronger competition position at higher safety – worldwide.



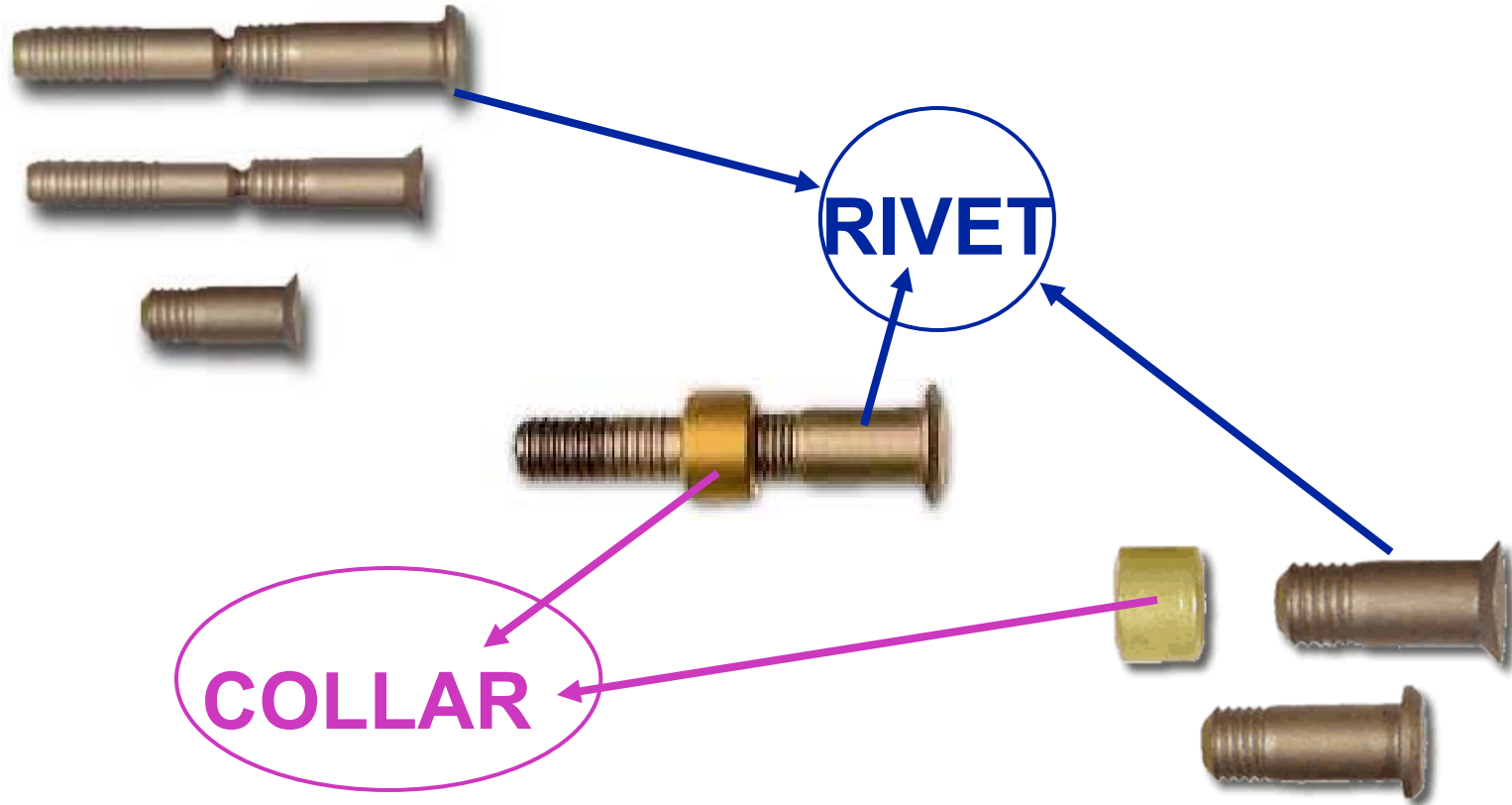


Wide Range of items – Specials





DEVELOPMENT OF TITANIUM SPECIAL FASTENERS





Customer Appreciations.....



MICO

Lakshmi Precision Screws Ltd.,
(Recoil Business Divn.)
Rhotak - 124 001

Kind Attn. : Mr. L.K.Jain - Managing Director

Your ref/date

Our ref
CLP

BOSCH

Motor Industries Co. Ltd.
P.B. No. 3000,
Hosur Road, Adugodi,
Bangalore - 560 030.
India
www.micoindia.com

Tel : 080 2299 9275
Fax : 080 2299 2126

Date
23.08.07

Dear Mr. Lakhera,

"Excellence through Synergy"

Please refer to our invitation for the event "Excellence through Synergy" being held at Chancery Pavilion, Bangalore, on Tuesday, 28th August 2007.

Congratulations!!


You have been selected for our prestigious "Excellence In Performance" award.

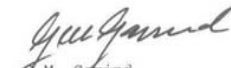
You are invited to receive the award personally.

Kindly confirm your participation by 25.08.07.

Thanking you,

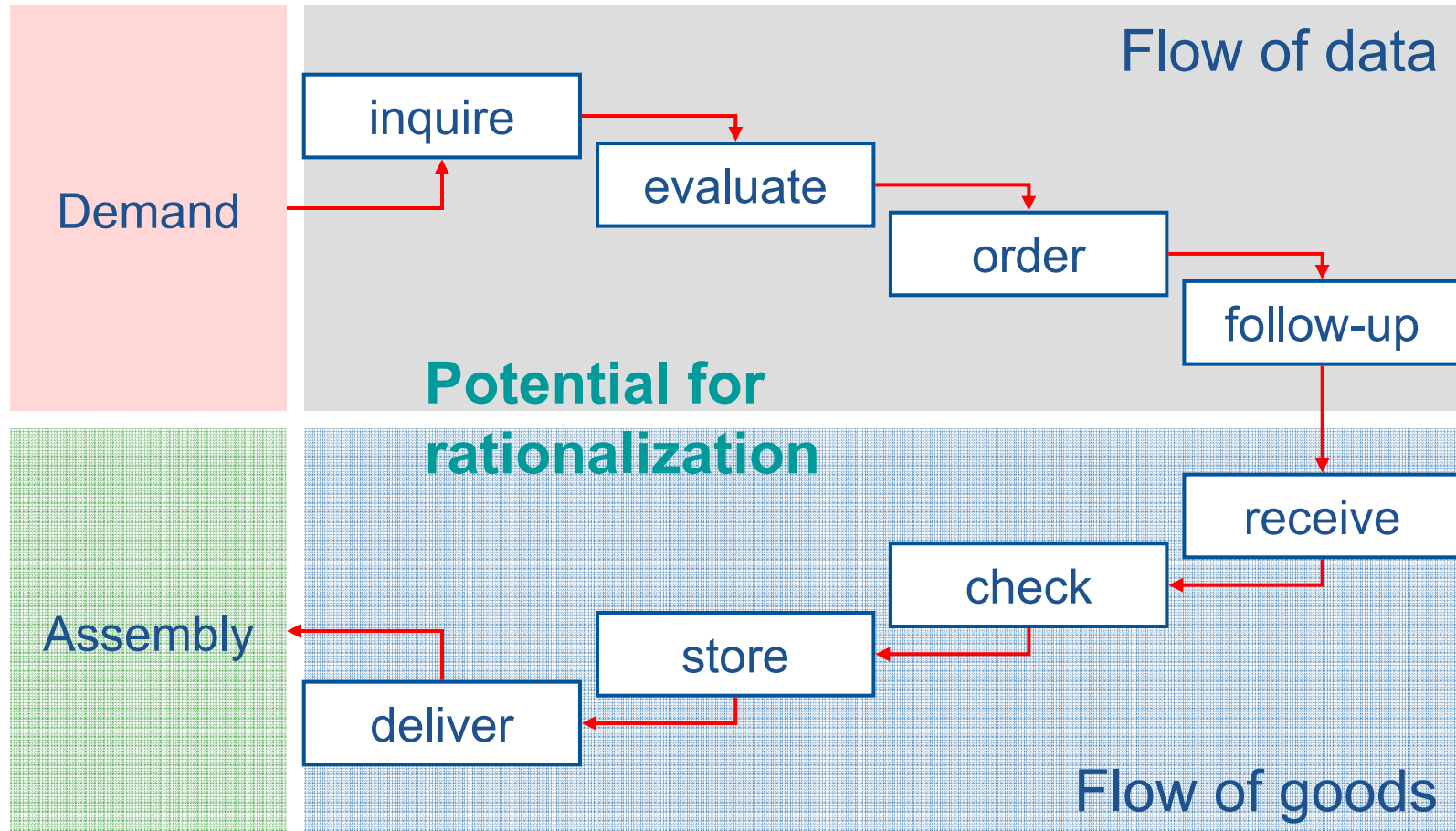
Yours faithfully,
for Motor Industries Co. Ltd.,


S.B. Lovekar
Vice President
(Commercial Plant Management)


S.M. Govind
Vice President
(Corporate Logistics & Purchase)

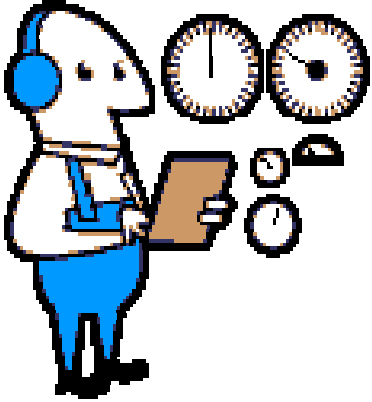


Purchasing Process





Intelligent Kitting

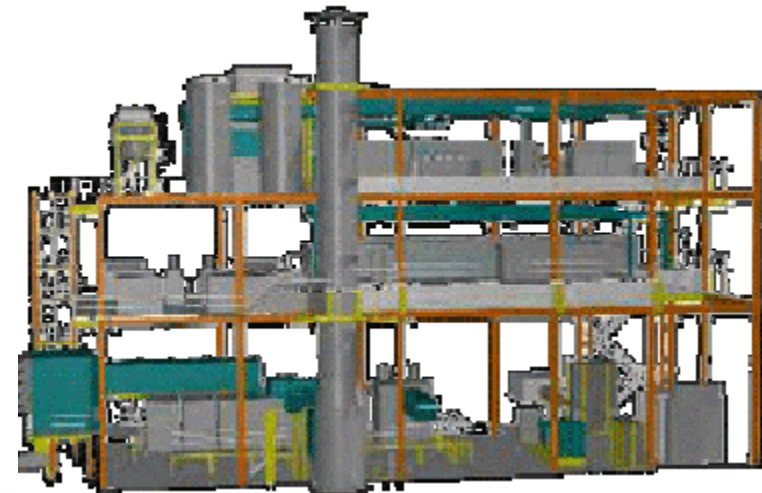


*Logistics Support
Systems*





High integration with customer @ each stage





LPS Solution Fit



LPS

Being market leader, You have a responsibility to initiate new sustainable agenda

Failure is not an option

Time is running out

High focus on environment management techniques.

Will to win

Alignment of workings

As a leading global brand, LPS command high reputé in global OEM's by providing innovative solutions, sometimes in uncommon ways adding value to customer's assembly.

Proactive engineering is the key

LPS is certified ISO-14001 / 18001 and much more.

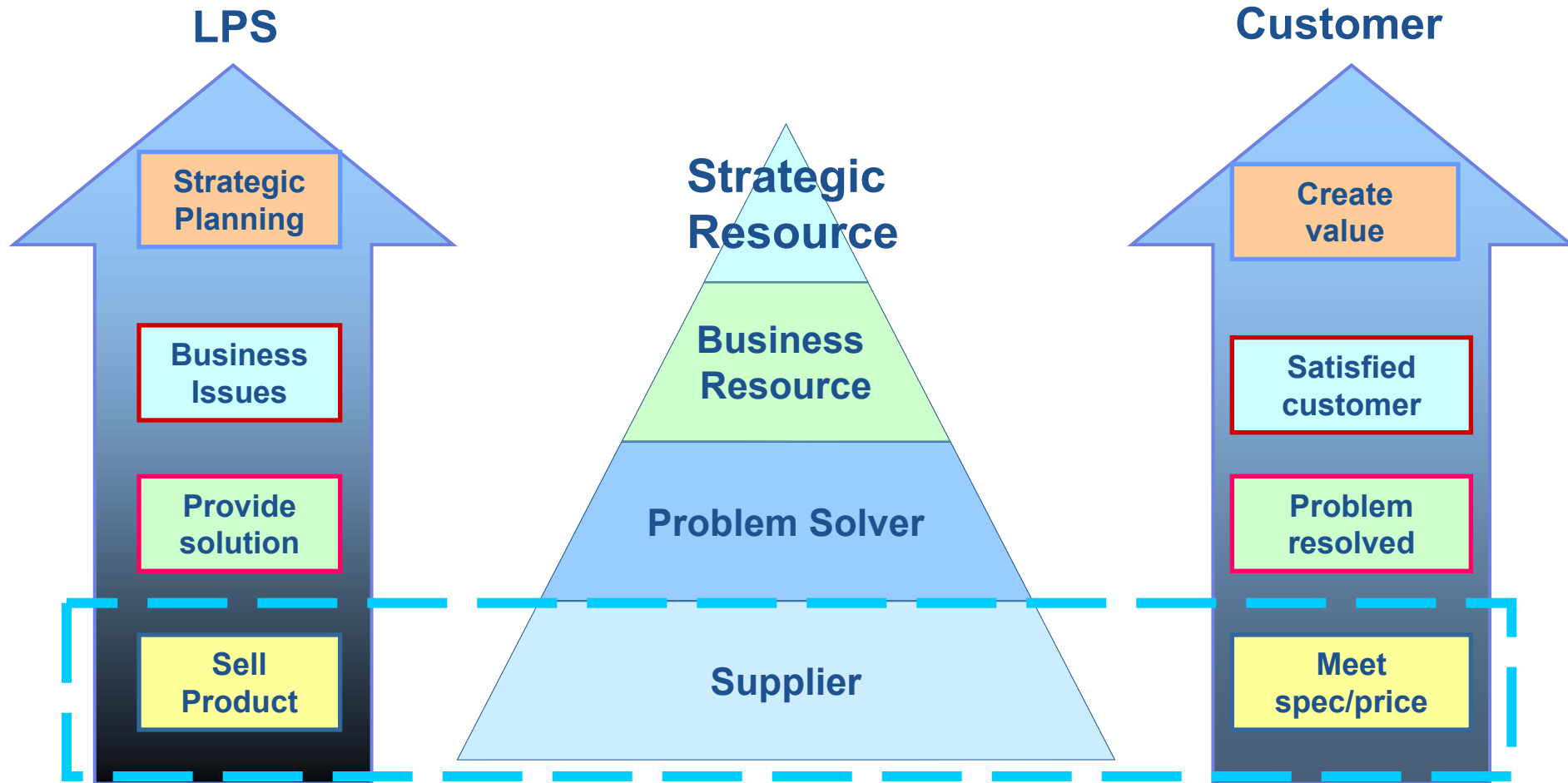
Focus has always been on inplace solutions.

LPS strategic partnership focuses more than just the product

Perfect Solutions at every stage from LPS aligning self to your Strategies



LPS as Strategic partner



Lakshmi Precision Screws Ltd.



THANKS